GLASS FURNACE MODEL (GFM) COMMERCIAL SOFTWARE LICENSE AGREEMENT

This Agreement, is made between the University of Chicago as operator of Argonne National Laboratory under Contract No. W-31-109-ENG-38 ("Licensor") with the U.S. Department of Energy ("DOE"), and the undersigned ("Licensee").

1. Definitions. The following definitions apply herein:

- (a) "Licensed Program" means computer software in object and source code generally referred to as the Glass Furnace Model (GFM) Version 1.0.
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- (c) "User Limitation" means maximum number of Licensed Copies for which the License Fee has been paid, to be used by persons under the direct supervision of Licensee.
 - (d) "License Fee" is listed in Appendix A.

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- (a) Subject to the terms and conditions hereof, Licensor hereby grants and Licensee accepts, a non-exclusive right and license to use and copy Licensed Program solely for internal modeling and research purposes, subject to the User Limitation. Licensee shall not have the right to relicense, sell, transfer or assign the Licensed Program. Licensee shall permit the use of Licensed Program solely by persons under its direct supervision. Licensee shall not permit the Licensed Program to be used by or for the benefit of parties outside Licensee's organization, including without limitation, use as part of a service bureau.
- (b) Non-commercial use by Licensee for the purpose of evaluating the Licensed Program for potential purchase of a commercial-use license is permitted for an evaluation period of six months from the signed date of this Agreement. After the evaluation period, the Licensee Fee for the Licensed Copies of the Licensed Program shall be promptly paid to Licensor as set forth in Appendix A, or the existing copies of the Licensed Program must be destroyed with a written notice confirming destruction to the Licensor.
- (c) No license is granted under this Agreement for use of the source code of the Licensed Program outside of the United States.
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The right and license granted herein shall commence on the date the Licensed Program is electronically delivered. Licensor shall make the Licensed Program available for electronic delivery promptly following receipt by Licensor of the License Fee and this Agreement signed on behalf of Licensee. Media will be shipped at Licensee's expense upon written request.

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All installation of the Licensed Program for use by Licensee will be by and at the sole expense of Licensee. Licensor has no duty at any time to provide technical support, or to debug, maintain, customize, or enhance the Licensed Program. However, Licensor may, at its sole discretion, offer future enhancements or Licensor controlled upgrade versions to Licensee without cost or at a price that will be determined on a case-by-case basis.

6. Termination

This Agreement shall be subject to termination by Licensor if Licensee becomes insolvent, declares bankruptcy, or a receiver or trustee is appointed for Licensee. In addition, either party may terminate this Agreement with written notice upon the occurrence of a default or breach by the other party in any of its obligations under this Agreement, provided such default or breach continues for more than thirty (30) days after receipt by such other party of notice; provided, however, there shall be no such cure period with respect to any breach of Licensee's obligation under Section 9 hereto. Upon termination of this Agreement under this Section 6, Licensee agrees to cease using the Licensed Program and to return all Licensed Copies of the Licensed Program to Licensor, or to certify to Licensor that it has destroyed all such Licensed Copies.

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- (a) Licensor warrants for thirty (30) days after shipment that any recording media by which a Licensed Program is furnished is free of manufacturing defects and damage provided that the media has been properly installed by Licensee. Licensee does not warrant that any Licensed Program will meet Licensee's requirements nor will be error free. As Licensee's sole and exclusive remedy for breach of the warranty herein, Licensor will provide a suitable replacement media containing the Licensed Program.
- (b) EXCEPT AS PROVIDED ABOVE, NEITHER THE UNITED STATES, NOR THE UNITED STATES DEPARTMENT OF ENERGY, NOR THE UNIVERSITY OF CHICAGO, NOR ARGONNE NATIONAL LABORATORY, NOR ANY OF THEIR EMPLOYEES, MAKES ANY WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, OR ASSUMES ANY LEGAL LIABILITY OR RESPONSIBILITY FOR THE ACCURACY, COMPLETENESS OR USEFULNESS OF ANY INFORMATION, APPARATUS, PRODUCT OR PROCESS DISCLOSED FOR ANY PURPOSE (WHETHER OR NOT KNOWN, OR HAVING REASON TO KNOW, HAVING BEEN ADVISED, OR OTHERWISE IN FACT AWARE OF ANY SUCH PURPOSE) OR THAT ITS USE WOULD NOT INFRINGE PRIVATELY OWNED RIGHTS. IN ADDITION, SAID PARTIES EXPRESSLY DISCLAIM ANY WARRANTY OR REPRESENTATION TO ANY PERSON OTHER THAN LICENSEE WITH RESPECT TO THE LICENSED PROGRAM, OR ANY PORTION THEREOF.
- (c) IN NO EVENT WILL SAID PARTIES BE LIABLE FOR ANY INCIDENTAL, SPECIAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES RESULTING FROM EXERCISE OF THIS AGREEMENT OR LICENSEE'S USE OF THE LICENSED PROGRAM. THE PARTIES ACKNOWLEDGE THAT THE LICENSE FEE REFLECTS AN AGREED ALLOCATION OF RISK BETWEEN THE PARTIES AND THE LIMITATION OF LIABILITY SPECIFIED HEREIN.

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8. Indemnity

Licensee indemnifies the U.S. Government, the University of Chicago, Argonne National Laboratory, and their trustees, officers, employees and agents, for all damages, costs, and expenses, including attorneys' fees, arising from personal injury or property damage to third parties occurring as a result use of the Licensed Program by Licensee, including but not limited to the making, using, selling, or exporting of products, processes, or services derived therefrom. This indemnification shall include, but not be limited to, indemnification for any product liability. Licensee's indemnification obligations arising hereunder shall apply irrespective as to whether such damages, costs and expenses arise or are alleged to arise, directly or indirectly, from the participation, whether active or passive, or negligence, whether ordinary or gross, of such parties, their employees, agents, or other personnel.

9. Protection of Licensed Program

Except as expressly provided herein, Licensee receives no rights to and will not sell, assign, lease, market, transfer, encumber, or otherwise suffer to exist any lien or security interest on, or allow any third person, firm, corporation, other entity to use, copy, or reproduce in whole or in part in any manner the Licensed Program. Licensee shall use its best efforts to insure that no unauthorized copy, in whole or in part, in any form shall be made of the Licensed Program. Licensee shall not permit any user to modify, reverse-engineer or disassemble any part of the Licensed Program.

10. Taxes

Licensee will pay or reimburse all federal, state, local or other taxes, including but not limited to, sales, use, added value, or excise taxes, or amounts levied in lieu thereof, based on fees and charges payable under this Agreement or based on Licensee's use of the Licensed Program.

11. EXPORT

LICENSEE AGREES AND CERTIFIES THAT IT WILL NOT EXPORT OR RE-EXPORT, DIRECTLY OR INDIRECTLY, THE LICENSED PROGRAM CONTRARY TO THE LAWS AND REGULATIONS OF THE UNITED STATES OR ANY OTHER COUNTRY.

12. Assignment

Except as expressly provided herein, Licensee may not assign, sublicense, or otherwise transfer its rights, duties or obligations under this Agreement to any other party or entity, in whole or in part, without the prior written consent of Licensor.

13. Entire Agreement

This Agreement constitutes the entire agreement between the parties and supersedes all prior or contemporaneous agreements or representations, written or oral, concerning the subject matter of this Agreement. No modification or amendment to this Agreement will be valid or binding unless reduced to writing and duly executed by the party or parties to be bound thereby.

14. Notices

Notices to Licensee shall be sent to the address specified beneath Licensee's signature and to Licensor to: Director, Office of Technology Transfer, Argonne National Laboratory, 9700 South Cass Avenue, Argonne IL 60439. Notice shall be deemed effective on the date of delivery if delivered by personal delivery (including overnight mail by private carrier) or on the date of mailing if delivered by certified mail.

15. Miscellaneous

Licensee

- (a) Nothing in this Agreement shall be construed as conferring any right to use in advertising, publicity, or other promotional activities any name, tradename, trademark, or other designation of any party hereto or of Argonne National Laboratory, the University of Chicago, the U.S. Department of Energy, the U.S. Government, or any employees thereof, and any contraction, abbreviation, or simulation of any of the foregoing.
- (b) The headings of the several sections of this Agreement are included for convenience of reference only and are not intended to be a part of or to affect the meaning or interpretation of this Agreement.
- (c) In the absence of applicable Federal law, this Agreement shall be interpreted and construed in accordance with the laws of the State of Illinois.
- (d) The failure or forbearance by Licensor or Licensee to enforce any right or claim against the other party shall not be deemed to be a waiver by Licensor of a claim or right or claim hereunder. The waiver by Licensor or Licensee of a breach hereof shall not operate or be construed as a waiver of any subsequent breaches of the same or any other provision.
- (e) If any of the provisions of this Agreement are determined to be invalid or unenforceable, such invalidity or unenforceability will not invalidate or render unenforceable the remainder of the Agreement, but rather the entire agreement will be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligations of the parties hereto shall be construed and enforced accordingly. The parties hereby acknowledge that if any provision of this Agreement is determined to be invalid and unenforceable, it is their desire and intention that such provision be reformed and construed in such a manner that it will, to the maximum extent practicable, be deemed valid and enforceable.

IN WITNESS WHEREOF, the parties have signed this Agreement on the date indicated below, being the effective date of this Agreement.

TO BE COMPLETED BY LICENSOR:
NUMBER OF COPIES:
LICENSE FEE PAID: DATE RECEIVED:
SOURCE LICENSE: YES NO IF YES: SOURCE SITE

Appendix A

Commercial Price List for the GFM Software

This price list is subject to change without notice.

Glass Consortium Member Price List

All licensing fees are a one-time payment

	Consortium Participants (U.S. Sites)	Consortium Participants (Foreign Sites)*
Executable code	No charge	\$2,000 per copy
Source code	No charge	\$10,000 per copy

Note: A foreign consortium member wanting the source code plus three executable codes would pay \$16,000.

Non-Glass Consortium Member Price List

All licensing fees are a one-time payment

	U.S. Companies For U.S. Furnaces	U.S. GMIC Companies for U.S. Furnaces	U.S. Companies for Foreign Furnaces	Foreign Companies for Foreign Furnaces
Executable:	447.000	440.000	ha 0 000	†
1 copy	\$15,000	\$10,000	\$20,000	\$30,000
2 nd copy	\$25,000	\$15,000	\$35,000	\$55,000
3 rd copy	\$30,000	\$20,000	\$45,000	\$75,000
Source	\$150,000	\$125,000	\$185,000* *Must be used in the U.S.	Not Available

A check for the License Fee should be made out to

Chief Financial Officer Argonne National Laboratory Attention: GFM License Fee 9700 South Cass Avenue, Bldg 201 Argonne, Il 60439

Note: Signed licenses should be returned to

Office of Technology Transfer Attention: GFM Licenses 9700 South Cass Avenue, Bldg 201 Argonne, IL 60439